

IN THE SPECIFICATION

Please replace paragraph [0080] on page 28 with the following paragraph:

The processing for the uplink may be the same or different from the processing for the downlink. Data and signaling are processed (e.g., coded, interleaved, and modulated) by a TX data processor 690, which similarly to TX processor 610 receives data from a data source 688, and further spatially processed and multiplexed with pilot symbols by TX spatial processor 692 to obtain transmit symbols. The transmit symbols are further processed by modulators 654a through 654ut to obtain N_{ut} uplink modulated signals, which are then transmitted via N_{ut} antennas 652a through 652ut to the access point. User terminal 150 sends back the correction $\hat{\mathbf{K}}_{ap}$ for the initial calibration and may send back the calibration error matrix $\mathbf{Q}_{ap,final}$ for the follow-on calibration, for the implementation described above. At access point 110, the uplink modulated signals are received by antennas 624, demodulated by demodulators 622, and processed by an RX spatial processor 640 and an RX data processor 642 in a complementary to that performed at the user terminal. RX data processor 642 provides the matrices $\hat{\mathbf{K}}_{ap}$ and $\mathbf{Q}_{ap,final}$ to controller 630 and/or, similarly to RX data processor 670, data sink 644.